PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
X-16095		
International application No.	International filing date (day/month/yea	(Earliest) Priority Date (day/month/year)
PCT/US2004/038227	06/12/2004	12/12/2003
Applicant		
ELI LILLY AND COMPANY		
This International Search Report has bee according to Article 18. A copy is being tra	n prepared by this International Searchin ansmitted to the International Bureau.	g Authority and is transmitted to the applicant
This International Search Report consists	of a total of sheets.	
X It is also accompanied by	a copy of each prior art document cited	in this report.
Basis of the report With regard to the language, the language in which it was filed, unli	international search was carried out on t ess otherwise indicated under this Item.	he basis of the international application in the
The international this Authority (Ru	search was carried out on the basis of a le 23.1(b)).	translation of the international application furnished to
b. With regard to any nucleo	otide and/or amino acid sequence disc	losed in the international application, see Box No. I.
2. X Certain claims were four	nd unsearchable (See Box II).	
3. Unity of invention is lack	king (see Box III).	
4. With regard to the title,		
X the text is approved as su	bmitted by the applicant.	
the text has been established	hed by this Authority to read as follows:	
	·	
5. With regard to the abstract,		
X the text is approved as sul		
the text has been establish may, within one month from	ned, according to Rule 38.2(b), by this A m the date of mailing of this international	uthority as it appears in Box No. IV. The applicant search report, submit comments to this Authority.
6. With regard to the drawings,		
a. the figure of the drawings to be pu	iblished with the abstract is Figure No.	
as suggested by the		-
as selected by this	Authority, because the applicant failed	to suggest a figure.
===	Authority, because this figure better cha	
	published with the abstract.	
orm PCT/ISA/210 (first sheet) (lanuary 2004		

Form PCT/ISA/210 (first sheet) (January 2004)

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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07C235/46 C07D C07D211/46 C07D213/82 C07D401/12 C07D401/14 C07D405/12 C07D409/12 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07C C07D A61K Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ, BEILSTEIN Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Criation of document with indication, where appropriate, of the relevant passages Relevant to claim No. X √₩O 03/082808 A (SUMITOMO PHARMACEUTICALS 1-15 COMPANY, LIMITED; IMAZAKI, NAONORI; KITANO, M) 9 October 2003 (2003-10-09) abstract; claim 4; examples 25,160 P,X PATENT ABSTRACTS OF JAPAN 1-3.5-10vol. 2003, no. 12, 5 December 2003 (2003-12-05) & JP 2004 002367 A (TANABE SEIYAKU CO LTD), 8 January 2004 (2004-01-08) table 6; compound 10-8 P,X ₩O 2004/037800 A (GLAXO GROUP LIMITED: 1,3-7,BEST, DESMOND, JOHN; BRUTON, GORDON; 11,12 HEIGHTMAN, T) 6 May 2004 (2004-05-06) examples D36-D38 -/--X Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents "T" later document published after the international filing date or pnorty date and not in conflict with the application but cited to understand the principle or theory underlying the *A* document defining the general state of the lart which is not considered to be of particular relevance. invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other, such docu-O' document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled in the art document published pnor to the international filing date but later than the priority date claimed $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) +\left(1\right) \left(1\right) +\left(1\right) +\left$ "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 18 April 2005 25/04/2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel (+31-70) 340-2040, Tx. 31 651 epo ni, Hanisch, I Fax. (+31-70) 340-3016

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International Application No PCT/US2004/038227

Intian) DOCUMENTS CONCIDEDED TO DE DELEVANT	PC1/US2004/03822/
	Relevant to claim No.
√WO 99/33806 A (ORTHO-MCNEIL	1-21
PHARMACEUTICAL, INC; CARSON, JOHN, R; CARMOSIN, RICHARD,) 8 July 1999 (1999-07-08) page 5, line 14 - line 18; claims	1-21
LAMP 1 072 592 A (PFIZER INC; PFIZER LIMITED) 31 January 2001 (2001-01-31) cited in the application page 2, paragraph 1 - paragraph 2; claims 1,15,17	1-21
WO 01/74806 A (ASTRAZENECA AB; BROWN, WILLIAM; WALPOLE, CHRISTOPHER) 11 October 2001 (2001-10-11) page 2, line 7 - line 9; claims 1,8	1-21
WO 02/48122 A (ORTHO-MCNEIL PHARMACEUTICAL, INC) 20 June 2002 (2002-06-20) page 6, line 2 - line 11; claims	1-21
WO 01/46174 A (ASTRAZENECA AB; BROWN, WILLIAM; WALPOLE, CHRISTOPHER) 28 June 2001 (2001-06-28) page 2, line 7 - page 5, line 3; claims 1-7; compound 6	. 1-21
WO 03/029233 A (RICHTER GEDEON VEGYESZETI GYAR RT; GALAMBOS, JANOS; NOGRADI, KATALIN;) 10 April 2003 (2003-04-10) page 2, line 3 - page 3, line 5; claim 1; example 4	1-21
WO 2004/026305 A (ELI LILLY AND COMPANY; BLANCO-PILLADO, MARIA-JESUS; CHAPPELL MARK, DO) 1 April 2004 (2004-04) the whole document	1-21
WO 2004/080968 A (ELI LILLY AND COMPANY; PEDREGAL-TERCERO, CONCEPCION; SIEGEL, MILES, GO) 23 September 2004 (2004-09-23) the whole document	1-21
	WO 99/33806 A (ORTHO-MCNEIL PHARMACEUTICAL, INC; CARSON, JOHN, R; CARMOSIN, RICHARD,) B July 1999 (1999-07-08) page 5, line 14 - line 18; claims LEP 1 072 592 A (PFIZER INC; PFIZER LIMITED) 31 January 2001 (2001-01-31) cited in the application page 2, paragraph 1 - paragraph 2; claims 1,15,17 WO 01/74806 A (ASTRAZENECA AB; BROWN, WILLIAM; WALPOLE, CHRISTOPHER) 11 October 2001 (2001-10-11) page 2, line 7 - line 9; claims 1,8 WO 02/48122 A (ORTHO-MCNEIL PHARMACEUTICAL, INC) 20 June 2002 (2002-06-20) page 6, line 2 - line 11; claims WO 01/46174 A (ASTRAZENECA AB; BROWN, WILLIAM; WALPOLE, CHRISTOPHER) 28 June 2001 (2001-06-28) page 2, line 7 - page 5, line 3; claims 1-7; compound 6 WO 03/029233 A (RICHTER GEDEON VEGYESZETI GYAR RT; GALAMBOS, JANOS; NOGRADI, KATALIN;) 10 April 2003 (2003-04-10) page 2, line 3 - page 3, line 5; claim 1; example 4 WO 2004/026305 A (ELI LILLY AND COMPANY; BLANCO-PILLADO, MARIA-JESUS; CHAPPELL MARK, DO) 1 April 2004 (2004-06 the whole document WO 2004/080968 A (ELI LILLY AND COMPANY; PEDREGAL-TERCERO, CONCEPCION; SIEGEL, MILES, GO) 23 September 2004 (2004-09-23)

International application No. PCT/US2004/038227

INTERNATIONAL SEARCH REPORT

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)	
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	_
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	
Although claims 16-20 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.	
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:	
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	
Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)	_
This International Searching Authority found multiple inventions in this international application, as follows:	
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.	
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	
As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:	
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	
,	
Remark on Protest The additional search food word accompanied by the additional	
The additional seal of fees were accompanied by the applicant's protest.	
No protest accompanied the payment of additional search fees.	

Form PCT/ISA/210 (continuation of first sheet (2)) (January 2004)

Information on patent family members

international Application No PCT/US2004/038227

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Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 03082808	Α	09-10-2003	AU EP WO	2003220935 1500643 03082808	A1	13-10-2003 26-01-2005 09-10-2003
JP 2004002367	Α	08-01-2004	NON			
WO 2004037800	Α	06-05-2004	AU WO	2003274053 2004037800		13-05-2004
WO 9933806	A	08-07-1999	AU CA EP	2009799 2316341 1049676	A A1 A1	06-05-2004
			JP TW WO ZA	2001527068 476755 9933806 9811842	B A1	25-12-2001 21-02-2002 08-07-1999 23-06-2000
EP 1072592	A	31-01-2001	BR CA EP JP JP US	0002515 2309434 1072592 2000344746 2004107324 2002099216	A1 A2 A	02-01-2001 28-11-2000 31-01-2001 12-12-2000 08-04-2004 25-07-2002
WO 0174806	Α	11-10-2001	AT AU BR CA CN CZ DE EP HU JP NO NZ PL WO SK US ZA		A A A1 A ,C A3 D1 A A1 A2 T A A1 A1 A3 A1	15-03-2005 15-10-2001 21-01-2003 11-10-2001 23-07-2003 12-03-2005 15-06-2004 05-03-2003 28-06-2003 07-10-2003 03-12-2002 25-06-2004 26-07-2004 11-10-2001 03-06-2003 23-10-2003 22-01-2004
WO 0248122	Α	20-06-2002	AU WO US	3401002 0248122 2002123489	A2	24-06-2002 20-06-2002 05-09-2002
WO 0146174	A	28-06-2001	AT AU BG BR CZ DE EE ES HU	275143 2418401 106805 0016591 2395300 20022124 60013486 200200337 1242410 2225289 0300020	A A A A A B D I A A I I I I	15-09-2004 03-07-2001 31-03-2003 10-09-2002 28-06-2001 13-11-2002 07-10-2004 15-10-2003 25-09-2002 16-03-2005 28-05-2003

Information on patent family members

International Application No
PCT/US2004/038227

Patent document cited in search report	ļ	Publication date		Patent family member(s)		Publication date
WO 0146174	A		JP	2003522741 1	<u></u> . T	29-07-2003
			MX	PA02006063 A	A	06-02-2003
			NO	20022920 A	A	22-07-2002
			NZ	519986 A	A	25-06-2004
			PL	356780 A	A1	12-07-2004
			WO	0146174 A	A1	28-06-2001
			SI	1242410 7	T1	31-12-2004
			SK	8832002 A	A3	04-03-2003
			US	2003105110 A	A 1	05-06-2003
			US	2004138225 A	41	15-07-2004
		-	ZA	200204255 A	4	28-08-2003
WO 03029233	Α	10-04-2003	HU	0103988 A	 92	28-05-2003
			EP	1438302 A	A1	21-07-2004
			WO	03029233 A	A1	10-04-2003
			JP	2005504126 T	r	10-02-2005
WO 2004026305 A	Α	01-04-2004	AU	2003269980 A	41	08-04-2004
		-	WO	2004026305 A	A1	01-04-2004
WO 2004080968	A	23-09-2004	WO	2004080968 A	\1	23-09-2004